

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number (Optional) 3278.1US	Application Number T be assigned
	Applicant Herr n t al.	
	Filing Date April 20, 2001	Group Art Unit T be assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3,748,044	07/24/73	Liston			
	3,934,061	01/20/76	Keck et al.			
	3,939,350	02/17/76	Kronick et al.			
	4,071,020	01/31/78	Pugliese			
	4,166,105	08/28/79	Hirschfeld			
	4,264,766	04/28/81	Fischer			
	4,298,685	11/03/81	Parikh et al.			
	4,450,231	05/22/84	Ozkan			
	4,591,570	05/27/86	Chang			
	4,818,710	04/04/89	Sutherland et al.			
	4,857,273	08/15/89	Stewart			
	4,857,453	08/15/89	Ullman et al.			
	4,866,681	09/12/89	Fertig			
	Re. 33,064	09/19/89	Carter et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	2 220 083 A	12/28/89	Great Britain				
	WO 90/01166	02/08/90	PCT				
	WO 90/06503	06/14/90	PCT				
	WO 91/13338	09/05/91	PCT				
	WO 91/01498	02/07/91	PCT				
	2,027,434	04/13/92	Canada				

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

	Carlsson et al., "Protein Thiolation and Reversible Protein-Protein Conjugation, <u>Biochem. J.</u> , 173, pp. 723-737, 1978.
	Fenton, J.J. et al., "Diagnostic Efficacy of a New Enzyme Immunoassay for Creatine Kinase MB Isoenzyme", 30 <u>Clin. Chem.</u> , pp. 1399-1401 (1984).

EXAMINER 	DATE CONSIDERED 6/25/03
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,880,752	11/14/89	Keck et al.			
	4,892,383	01/09/90	Klainer et al.			
	4,893,894	01/16/90	Caimi			
	4,909,990	03/20/90	Block et al.			
	4,913,519	04/03/90	Klainer et al.			
	4,940,328	07/10/90	Hartman			
	4,945,245	07/31/90	Levin			
	4,954,318	09/04/90	Yafuso et al.			
	5,000,540	03/19/91	Nakamura			
	5,006,333	04/09/91	Seifer et al.			
	5,006,716	04/09/91	Hall			
	5,009,996	04/23/91	Shah et al.			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
		Harrick et al., "Multiple Internal Reflection Fluorescence Spectrometry", <u>Analytical Chemistry</u> , Vol. 45, No. 4, pp. 687-689, 691, April 1973.
		Hirano, K. et al., "Determination of mitochondrial aspartate aminotransferase in serum", 155 <u>Clin. Chim. ACTA</u> , pp. 251-262 (1986).
		Hoberg, o. et al., "Myoglobin, creatine kinase- β isoenzyme, and myosin light chain release4 in patients with unstable angina pectoris, 8 <u>Eur. Heart J.</u> , pp. 989-994 (1987).

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>[Handwritten: OK]</i>	5,043,278	08/27/91	Nagaoka et al.			
	5,059,396	10/22/91	Opitz et al.			
	5,064,619	11/12/91	Finlan			
	5,081,012	01/14/92	Flanagan et al.			
	5,132,095	07/21/92	Koshiishi et al.			
	5,156,972	10/20/92	Issachar			
	5,156,976	10/20/92	Slovacek et al.			
	5,164,589	11/17/92	Sjodin			
	5,166,515	11/24/92	Attridge			
	5,173,747	12/22/92	Boiarski et al.			
<i>[Handwritten: OK]</i>	5,192,502	03/09/93	Attridge et al.			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
		Ives et al., " Protein Adsorption on the Surface of a Thin-Film Polymer Integrated Optical Waveguide ", <u>Applied Spectroscopy</u> , Vol. 42, Number 1, pp. 68-72, 1988.
		Ives et al., "Total Internal Reflection Fluorescence Surface Sensors.", <u>Optical Fiber Sensors</u> , pp. 391-396, 1987.
		Juronen, E.I. et al., "Rapid, simple and sensitive antigen capture ELISA for the quantitation of myoglobin using monoclonal antibodies", 111 <u>J. Immunol. Methods</u> , pp. 109-115 (1988).

EXAMINER <i>[Handwritten Signature]</i>	DATE CONSIDERED 4/26/03
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,192,510	03/09/93	Zoha et al.	<div style="font-size: 4em; transform: rotate(45deg); position: relative; top: -50%; left: -50%;">X</div>		
	5,202,230	04/13/93	Kamentsky			
	5,212,099	05/18/93	Marcus			
	5,221,958	06/22/93	Bohnenkamp			
	5,224,188	06/29/93	Vali			
	5,248,620	09/28/93	Sluka et al.			
	5,249,251	09/28/93	Egalon et al.			
	Re 34,394	09/28/93	Bunting			
	5,262,638	11/16/93	Egalon et al.			
	5,266,486	11/30/93	Fraatz et al.			
	5,268,305	12/07/93	Ribi et al.			

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
		Kenett, D., "Quantitative ELISA for human lactate dehydrogenase isoenzyme 5", 9 <u>J. Immunoassay</u> , pp. 37-49 (1988).
		Lee et al., "Protein-resistant surfaces prepared by PEO-containing block copolymer surfactants", <u>Journal of Biomedical Materials Research</u> , pp. 351-368 (1989).
		Nagai, R. et al., "Clinical application of immunoassays for cardiac myosin light chains", 37 <u>RINSHO BYORI</u> , pp. 1353-1359 (1989) (Article in Japanese, English version of abstract also provided).

EXAMINER 	DATE CONSIDERED <div style="font-size: 1.5em; font-family: cursive;">6/26/03</div>
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OP	5,274,721	12/28/93	Dickinson et al.			
	5,290,678	03/01/94	Jackowski			
	5,300,423	04/05/94	Zoha et al.			
	5,327,225	07/05/94	Bender et al.			
	5,340,715	08/23/94	Slovacek et al.			
	5,340,722	08/23/94	Wolfbeis et al.			
	5,341,805	08/30/94	Stavridi et al.			
	5,343,550	08/30/94	Egalon et al.			
	5,344,784	09/06/94	Attridge			
	5,354,574	10/11/94	Kobayashi et al.			
A	5,372,936	12/13/94	Fraatz et al.			
	5,377,008	12/27/94	Ridgway et al.			

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						YES	NO

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
		"OPUS Troponin 1 Calibrators", package insert, 1 page, August 1995.
		"OPUS Troponin 1" instructions, 1 page, February 1996.
		"OPUS Troponin 1 Controls", package insert, 1 page, October 1996.

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<i>[Handwritten signature]</i>	5,399,866	03/21/95	Feldman et al.			
	5,401,469	03/28/95	Kobayashi et al.			
	5,413,939	05/09/95	Gustafson et al.			
	5,416,579	05/16/95	Barshad et al.			
	5,422,283	06/06/95	Ismail			
	5,426,032	06/20/95	Phillips et al.			
	5,427,915	06/27/95	Ribi et al.			
	5,432,096	07/11/95	Zhu			
	5,437,840	08/01/95	King et al.			
	5,449,625	09/12/95	Kobayashi et al.			
	5,478,755	12/26/95	Attridge et al.			

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OTHER DOCUMENTS

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		Pecht et al., "Kinetics of Antibody-Hapten Interactions", <u>Molecular Biology, Biochemistry and Biophysics</u> , pp. 308-309, 311, 313, 315, 317, 319, 321, 323-324, 326, 328, 330, 332, 334, 336, 338, 1977.
		Van Steirteghem, A.C. et al., "Comparison of the Effectiveness of Four Clinical Chemical Assays in Classifying Patients with Chest Pain", 28 <u>Clin. Chem.</u> , pp. 1319-1324 (1982).
		Varasteh, A. et al., "An avidin-biotin ELISA for the measurement of mitochondrial aspartate aminotransferase in human serum", 128 <u>J. Immunol. Methods</u> , pp. 203-209 (1990).
		Walker et al., "Integrated Optical Waveguide Attenuated Total Reflection Spectrometry and Resonance Raman Spectroscopy of Adsorbed Cytochrome c", <u>J. Phys. Chem.</u> , Vol. 97, No. 39, pp. 10217-10222, 1993.
		Walker et al., "Corning 7059, Silicon Oxynitride, and Silicon Dioxide Thin-Film Integrated Optical Waveguides: In Search of Low Loss, Nonfluorescent, Reusable-Glass Waveguides", <u>Applied Spectroscopy</u> , Vol. 46, No. 9, pp. 1437-1441, 1992.

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	5,492,674	02/20/96	Meserol			
	5,494,798	02/27/96	Gerdt et al.			
	5,494,803	02/27/96	Carbonell et al.			
	5,514,596	05/07/96	King et al.			
	5,538,850	07/23/96	King et al.			
	5,552,272	09/03/96	Bogart			
	5,580,794	12/03/96	Allen			
	5,604,105	02/18/97	Jackowski			
	5,710,008	01/20/98	Jackowski			
	5,747,274	05/05/98	Jackowski			
	5,814,565	09/29/98	Reichert et al.			
	6,222,619	04/24/01	Herron et al.			

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OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

		Werner, M. et al., "Diagnostic Performance of Enzymes in the Discrimination of Myocardial Infarction", 28 Clin. Chem., pp. 1297-1302 (1982).
		R. Wurmser, "Thermodynamic study of antigen-antibody reactions", Experimental Methods in Biophysical Chemistry, pp. 613-647.

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